IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Yasuhiko ONISHI et al. Group Art Unit: 2613

Application Number: 10/536,901 Examiner: Liam Heincer

Filed: May 27, 2005 Confirmation Number: 6263

For: CATIONIC GRAFT-COPOLYMER FOR NON-VIRAL GENE DELIVERY

VECTOR

Attorney Docket Number: 052603

Customer Number: 38834

DECLARATION UNDER 37 C.F.R. §1.132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 December 18, 2007

Sir:

- I, Yasuhiko Onishi, a citizen of Japan, hereby declare and state the following:
- 1. I graduated from Hiroshima University of West Hiroshima City, Hiroshima Prefecture, Japan in 1967 with a bachelor degree in engineering.
- 2. Since 2005, I have been employed by Ryujyu Science Corporation of Seto City, Aichi Prefecture, Japan where my present title is director. During my employment therein, I have conducted research and development.
- 3. I am the author of the following publications:

 "Characteristics of 2-diethylaminoethyl(DEAE)-dextran-MMA graft copolymer as a non-viral gene carrier", Nanomedicine: Nanotechnology, Biology, and Medicine, 3:184-191, 2007.
- 4. I have read and am familiar with the above-identified patent application as well as the Official Action dated September 19, 2007, in the application.

Declaration under 37 C.F.R. §1.132

Application No. 10/536,901

Attorney Docket No. 052603

5. I have read and am familiar with the contents of cited references, U. S. Patent Nos.

4,816,540 to Onishi; and "Gene-Delivery Polymers" to Park cited in the Official Actions in the

above-identified application.

6. Under my supervision and control, I conducted experiments to obtain data for

illustrating the efficacy/transfection efficiency of the claimed non-viral gene delivery vector

comprising the graft copolymer as compared with prior known vectors for this particular

purpose.

In the data, Example 1 (DDMC) is compared with PolyFect Reagent (QIAGEN

GmbH) having dendrimeric structures shown in Section 2.2.2 of Pack (Gene delivery polymers).

The data is for transfection for COS7 cells by pGL3DNA/DDMC. The cells were ready to

harvest 72 hours after the transfection, and were then assayed for luciferase activity. The

results are presented in the attached graph.

8. From the attached experimental results, I have concluded, among other things, that

the claimed non-viral gene delivery vector has a higher transfection efficacy/transfection

efficiency as compared with the prior known vectors.

- 2 -

Declaration under 37 C.F.R. §1.132 Application No. 10/536,901 Attorney Docket No. 052603

The undersigned declares that all statements made herein of his own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

	V	lasu	liko	Ou	ishi		
		Yas	uhiko	Onis	hi		. A.

Signed this 18 day of December, 2007.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Yasuhiko ONISHI et al.

Group Art Unit: 2613

Application Number: 10/536,901

Examiner: Liam HEINCER

Filed: May 27, 2005

Confirmation Number: 6263

For:

CATIONIC GRAFT-COPOLYMER FOR NON-VIRAL GENE

DELIVERY VECTOR

Attorney Docket Number:

052603

Customer Number:

38834

REQUEST TO CHARGE

Mail Stop 16 Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450 December 19, 2007

Sir:

Applicants filed a new patent utility application (National Stage of PCT/JP2004/000086) on May 27, 2005. Applicants included a check for \$600.00 for the Basic National Stage Fee \$150.00, National Stage Search Fee \$250.00, National Stage Examination Fee \$100.00 and Fee for one extra independent claim \$100.00.

The amount of \$250.00 was erroneously <u>credited</u> to deposit account number 50-2866 on September 7, 2005 after \$200.00 was erroneously charged to deposit account number 50-2886 on September 7, 2005. Applicants do not recognize this charge for anything that has been filed in the referenced application. A copy of the Deposit Account monthly statement of September 2005 accompanies this Request.

Request for Charge

Application Number: 10/536,901 Attorney Docket No. 052603

Applicants request that the Patent Office charge back the amount of \$50.00 to Deposit Account 50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP
RYAN CHIR MOMAS

FUR Lee C. Wright REGNO. 56,527

Registration No. 41,441 Telephone: (202) 822-1100

Facsimile: (202) 822-1111

LCW/af

Enclosures: Deposit Account Monthly Statement of September 2005

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Deposit Account Statement

Requested Statement Month:

September 2005

Deposit Account Number:

502866

Name:

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

Attention:

ACCOUNTS PAYABLE

Street Address 1:

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